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순서

- 1. PROD DB 의 SYS계정에서 ts8100 테이블 스페이스 생성
- 2. scott에서 emp8100테이블을 PROD DB 쪽에 생성
- 3. shm2 로 테이틀 스페이스 레벨로 데이터 이관

1. orcl DB와 ASM 인스턴스를 모두 내립니다.(실습 하려는 db를 제외하고 모두 내리기)

• 올라와 있는지 확인

```
[PROD:~]$ ps -ef | grep pmon
oracle 5144 1 0 09:36 ? 00:00:00 ora_pmon_shm
oracle 5300 1 0 09:37 ? 00:00:00 asm_pmon_+ASM
oracle 5443 1 0 09:37 ? 00:00:00 ora_pmon_orcl
oracle 12612 5664 0 10:06 pts/1 00:00:00 grep pmon
```

```
[PROD:~]$ ps -ef | grep pmon
oracle 5144 1 0 09:36 ? 00:00:00 ora_pmon_shm
oracle 5300 1 0 09:37 ? 00:00:00 asm_pmon_+ASM
oracle 5443 1 0 09:37 ? 00:00:00 ora_pmon_orcl
oracle 12612 5664 0 10:06 pts/1 00:00:00 grep pmon
[PROD:~]$
```

• orcl DB 내리기

```
[PROD:~]$ . oraenv
ORACLE_SID = [PROD] ? orcl
The Oracle base for ORACLE_HOME=/u01/app/oracle/product/11.2.0/dbhome_1 is
[orcl:~]$
[orcl:~]$
[orcl:~]$ ss

SQL*Plus: Release 11.2.0.1.0 Production on Thu Feb 22 10:07:10 2024
```

```
Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - Production
With the Partitioning, Automatic Storage Management, OLAP, Data Mining
and Real Application Testing options

orcl SYS > shutdown immediate
Database closed.
Database dismounted.
```

```
[PROD:~]$ . oraenv
ORACLE SID = [PROD] ? orcl
The Oracle base for ORACLE_HOME=/uθ1/app/oracle/product/11.2.θ/dbhome_1 is /uθ1/app/oracle
[orcl:~]$
[orcl:~]$
[orcl:~]$ ss

SQL*Plus: Release 11.2.θ.1.θ Production on Thu Feb 22 10:θ7:1θ 2024

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Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.θ.1.θ - Production
With the Partitioning, Automatic Storage Management, OLAP, Data Mining
and Real Application Testing options

orcl SYS > shutdown immediate
Database closed.
Database dismounted.
ORACLE instance shut down.
```

• ASM instance 내리기

ORACLE instance shut down.

```
[orcl:~]$ . oraenv
ORACLE_SID = [orcl] ? +ASM
The Oracle base for ORACLE_HOME=/u01/app/oracle/product/11.2.0/grid is /u0
[+ASM:~]$ sqlplus / as sysasm
SQL*Plus: Release 11.2.0.1.0 Production on Thu Feb 22 10:08:19 2024
Copyright (c) 1982, 2009, Oracle. All rights reserved.

Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - Production With the Automatic Storage Management option
SQL>
SQL> shutdown immediate
```

```
[+ASM:~]$ sqlplus / as sysasm

SQL*Plus: Release 11.2.0.1.0 Production on Thu Feb 22 10:08:19 2024

Copyright (c) 1982, 2009, Oracle. All rights reserved.

Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - Production With the Automatic Storage Management option

SQL>
SQL>
SQL> shutdown immediate
ASM diskgroups dismounted
ASM instance shutdown
```

• 확인하기

```
[+ASM:~]$ ps -ef | grep pmon
oracle 5144 1 0 09:36 ? 00:00:00 ora_pmon_shm
oracle 14045 5664 0 10:10 pts/1 00:00:00 grep pmon
```

```
[+ASM:~]$ ps -ef | grep pmon
oracle 5144 1 0 09:36 ? 00:00:00 ora_pmon_shm
oracle 14045 5664 0 10:10 pts/1 00:00:00 grep pmon
[+ASM:~]$
```

• shmDB 내리기

```
[shm2:~]$ . oraenv
ORACLE_SID = [shm2] ? shm
The Oracle base for ORACLE_HOME=/u01/app/oracle/product/11.2.0/dbhome_1 is
[shm:~]$
[shm:~]$ ss

SQL*Plus: Release 11.2.0.1.0 Production on Thu Feb 22 10:37:25 2024

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Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - Production
With the Partitioning, OLAP, Data Mining and Real Application Testing opti
shm SYS >
shm SYS > shutdown immediate
Database closed.
```

Database dismounted.
ORACLE instance shut down.

```
[shm2:~]$ . oraenv
ORACLE_SID = [shm2] ? shm
The Oracle base for ORACLE_HOME=/u01/app/oracle/product/11.2.0/dbhome_1 is /u01/app/oracle
[shm:~]$
[shm:~]$ ss

SQL*Plus: Release 11.2.0.1.0 Production on Thu Feb 22 10:37:25 2024

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Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options

shm SYS >
shm SYS > shutdown immediate
Database closed.
Database dismounted.
ORACLE instance shut down.
```

2. PROD DB와 shm2 DB 를 올립니다.

• PROD DB 올리기

```
[orcl:~]$ . oraenv
ORACLE_SID = [orcl] ? PROD
ORACLE_HOME = [/home/oracle] ? /u01/app/oracle/product/11.2.0/dbhome_1
The Oracle base for ORACLE_HOME=/u01/app/oracle/product/11.2.0/dbhome_1 is
[PROD:~]$
[PROD:~]$
[PROD:~]$
[PROD:~]$
[PROD:~]$ ps -ef | grep pmon
oracle
         5144
                  1 0 09:36 ?
                                      00:00:00 ora_pmon_shm
oracle
       14501 5664 0 10:11 pts/1
                                      00:00:00 grep pmon
[PROD:~]$
[PROD:~]$ ss
SQL*Plus: Release 11.2.0.1.0 Production on Thu Feb 22 10:11:49 2024
Copyright (c) 1982, 2009, Oracle. All rights reserved.
Connected to an idle instance. ==> 올라오지 않은 instance에 접속했다는 의미
PROD SYS >
PROD SYS > startup
ORACLE instance started.
Total System Global Area 535662592 bytes
Fixed Size
                           1337720 bytes
Variable Size
                         436209288 bytes
```

```
Database Buffers 92274688 bytes
Redo Buffers 5840896 bytes
Database mounted.
Database opened.
```

```
[orcl:~]$ . oraenv
ORACLE_SID = [orcl] ? PROD
ORACLE_HOME = [/home/oracle] ? /u01/app/oracle/product/11.2.0/dbhome_1
The Oracle base for ORACLE_HOME=/u01/app/oracle/product/11.2.0/dbhome_1 is /u01/app/oracle
[PROD:~]$
[PROD:~]$
[PROD:~]$
[PROD:~]*
[PROD:~]$
[PROD:~]$ ps -ef | grep pmon
eracle 5144 1 0 09:36 ?
5664 0 10:11 pt
                                                                  θθ:θθ:θθ ora pmon shm
               5144 1 0 09:36 ?
14501 5664 0 10:11 pts/1
                                                                 00:00:00 grep pmon
[PROD:~]$
[PROD:~]$ ss
SQL*Plus: Release 11.2.0.1.0 Production on Thu Feb 22 10:11:49 2024
Copyright (c) 1982, 2009, Oracle. All rights reserved.
Connected to an idle instance.
PROD SYS >
PROD SYS > startup
ORACLE instance started.
Total System Global Area 535662592 bytes Fixed Size 1337720 bytes Variable Size 436209288 bytes Database Buffers 92274688 bytes Redo Buffers 5840896 bytes
Variable Size
Database Buffers
Database mounted.
Database opened.
```

• shm2 DB 올리기

```
[orcl:~]$ . oraenv
ORACLE_SID = [orcl] ? shm2
ORACLE_HOME = [/home/oracle] ? /u01/app/oracle/product/11.2.0/dbhome_1
The Oracle base for ORACLE_HOME=/u01/app/oracle/product/11.2.0/dbhome_1 is
[shm2:~]$
[shm2:~]$
[shm2:~]$ ss

SQL*Plus: Release 11.2.0.1.0 Production on Thu Feb 22 10:23:52 2024

Copyright (c) 1982, 2009, Oracle. All rights reserved.

Connected to an idle instance.

shm2 SYS >
shm2 SYS > startup
ORACLE instance started.

Total System Global Area 267825152 bytes
```

```
Fixed Size 1335924 bytes
Variable Size 92278156 bytes
Database Buffers 167772160 bytes
Redo Buffers 6438912 bytes
Database mounted.
Database opened.
```

```
[orcl:~]$ . oraenv
ORACLE_SID = [orcl] ? shm2
ORACLE_HOME = [/home/oracle] ? /u01/app/oracle/product/11.2.0/dbhome_1
The Oracle base for ORACLE_HOME=/u01/app/oracle/product/11.2.0/dbhome_1 is /u01/app/oracle
[shm2:~]$
[shm2:~]$
[shm2:~]$
[shm2:~]$ ss

SQL*Plus: Release 11.2.0.1.0 Production on Thu Feb 22 10:23:52 2024

Copyright (c) 1982, 2009, Oracle. All rights reserved.

Connected to an idle instance.

shm2 SYS >
shm2 SYS >
shm2 SYS > startup
ORACLE instance started.

Total System Global Area 267825152 bytes
Fixed Size 92278156 bytes
Database Buffers 167772160 bytes
Database Buffers 6438912 bytes
Database mounted.
Database opened.
```

• 확인하기

```
[shm:~]$ ps -ef | grep pmon
oracle 14556 1 0 10:11 ? 00:00:00 ora_pmon_PROD
oracle 19275 1 0 10:23 ? 00:00:00 ora_pmon_shm2
oracle 24775 5664 0 10:38 pts/1 00:00:00 grep pmon
```

- 3. 작업 전 반드시 확인해야할 사항을 체크합니다.
 - a. PROD DB와 shm2 DB 간의 character set이 서로 일치하는지 확인해야합니다
 - PROD DB의 character set 확인.

```
@dbp

PROD SYS > @dbp

PROPERTY_NAME PROPERTY_VALUE
```

DICT.BASE	2		
DEFAULT_TEMP_TABLESPACE	TEMP3		
DEFAULT_PERMANENT_TABLESPACE	EXAMPLE		
DEFAULT_EDITION	ORA\$BASE		
Flashback Timestamp TimeZone	GMT		
TDE_MASTER_KEY_ID	OFF		
DBTIMEZONE	+00:00		
	+09:00 NONE 11		
DST_UPGRADE_STATE			
DST_PRIMARY_TT_VERSION			
DST_SECONDARY_TT_VERSION	O CMALLETLE		
DEFAULT_TBS_TYPE	SMALLFILE		
PROPERTY_NAME	PROPERTY_VALUE		
NLS_LANGUAGE	AMERICAN		
NLS_TERRITORY	AMERICA		
NLS_CURRENCY	\$		
NLS_ISO_CURRENCY	AMERICA		
NLS_NUMERIC_CHARACTERS	US7ASCII GREGORIAN DD-MON-RR AMERICAN BINARY		
NLS_CHARACTERSET			
NLS_CALENDAR			
NLS_DATE_FORMAT			
NLS_DATE_LANGUAGE			
NLS_SORT			
_	HH.MI.SSXFF AM		
NLS_TIME_FORMAT	HH.MI.SSAFF AM		
PROPERTY_NAME	PROPERTY_VALUE		
NLS_TIMESTAMP_FORMAT	DD-MON-RR HH.MI.SSXFF AM		
 NLS_TIME_TZ_FORMAT	HH.MI.SSXFF AM TZR		
NLS_TIMESTAMP_TZ_FORMAT	DD-MON-RR HH.MI.SSXFF AM		
	TZR		
NI C DIAL CURRENCY	¢		
NLS_DUAL_CURRENCY	\$		
NLS_COMP	BINARY		
NLS_LENGTH_SEMANTICS	BYTE		
NLS_NCHAR_CONV_EXCP	FALSE		
NLS_NCHAR_CHARACTERSET	AL16UTF16		
NLS_RDBMS_VERSION	11.2.0.1.0		
PROPERTY_NAME	PROPERTY_VALUE		
GLOBAL_DB_NAME	PROD		
GLOBAL_DB_NAME			
EXPORT_VIEWS_VERSION	8		
	8		

PROPERTY_NAME 	PROPERTY_VALUE		
DICT.BASE	2		
DEFAULT_TEMP_TABLESPACE	TEMP3 Example Ora <mark>\$base</mark>		
DEFAULT_PERMANENT_TABLESPACE			
DEFAULT_EDITION			
Flashback Timestamp TimeZone FDE_MASTER_KEY_ID	GMT		
DBTIMEZONE	+09:00 NONE 11		
DST_UPGRADE_STATE			
DST_PRIMARY_TT_VERSION			
DST_SECONDARY_TT_VERSION	θ		
DEFAULT_TBS_TYPE	SMALLFILE		
PROPERTY_NAME	PROPERTY_VALUE		
NLS_LANGUAGE	AMERICAN		
NLS_TERRITORY	AMERICA		
NLS_CURRENCY	\$		
NLS_ISO_CURRENCY	AMERICA		
NLS_NUMERIC_CHARACTERS	.,		
NLS_CHARACTERSET	US7ASCII		
NLS_CALENDAR	GREGORIAN		
NLS_DATE_FORMAT	DD-MON-RR		
NLS_DATE_LANGUAGE	AMERICAN		
NLS_SORT	BINARY		
NLS_TIME_FORMAT	HH.MI.SSXFF AM		
PROPERTY_NAME	PROPERTY_VALUE		
NLS_TIMESTAMP_FORMAT	DD-MON-RR HH.MI.SSXFF AM		
NLS_TIME_TZ_FORMAT	HH.MI.SSXFF AM TZR		
NLS_TIMESTAMP_TZ_FORMAT	DD-MON-RR HH.MI.SSXFF AM TZR		
NLS DUAL CURRENCY	\$		
NLS COMP	BINARY		
NLS LENGTH SEMANTICS	BYTE		
NLS NCHAR CONV EXCP	FALSE		
NLS NCHAR CHARACTERSET	AL16UTF16		
NLS_RDBMS_VERSION	11.2.0.1.0		
PROPERTY_NAME	PROPERTY_VALUE		
GLOBAL_DB_NAME	PROD		
EXPORT_VIEWS_VERSION	8		
WORKLOAD_CAPTURE_MODE			
WORKLOAD_REPLAY_MODE			
NO USERID VERIFIER SALT	9874C0A11FFC8053D22E809A7		

• shm2 DB의 character set확인

```
shm2 SYS > startup
ORACLE instance started.

Total System Global Area 267825152 bytes
Fixed Size 1335924 bytes
Variable Size 92278156 bytes
Database Buffers 167772160 bytes
```

Redo Buffers 6438912 bytes

Database mounted. Database opened.

shm2 SYS >

shm2 SYS > @dbp

PROPERTY_NAME PROPERTY_VALUE

DICT.BASE DEFAULT_TEMP_TABLESPACE TEMP SYSTEM DEFAULT_PERMANENT_TABLESPACE DEFAULT_EDITION ORA\$BASE Flashback Timestamp TimeZone GMT

TDE_MASTER_KEY_ID

DBTIMEZONE +09:00 DST_UPGRADE_STATE NONE DST_PRIMARY_TT_VERSION 11 DST_SECONDARY_TT_VERSION

DEFAULT_TBS_TYPE **SMALLFILE**

PROPERTY_NAME PROPERTY_VALUE

NLS LANGUAGE **AMERICAN** NLS_TERRITORY **AMERICA** NLS_CURRENCY \$

NLS_ISO_CURRENCY **AMERICA**

NLS_NUMERIC_CHARACTERS

NLS_CHARACTERSET US7ASCII NLS_CALENDAR **GREGORIAN** NLS_DATE_FORMAT DD-MON-RR NLS_DATE_LANGUAGE **AMERICAN** NLS_SORT BINARY

NLS TIME FORMAT HH.MI.SSXFF AM

PROPERTY NAME PROPERTY_VALUE

NLS_TIMESTAMP_FORMAT

HH.MI.SSXFF AM TZR NLS_TIME_TZ_FORMAT

NLS_TIMESTAMP_TZ_FORMAT DD-MON-RR HH.MI.SSXFF AM

TZR

DD-MON-RR HH.MI.SSXFF AM

NLS_DUAL_CURRENCY

NLS COMP **BINARY** NLS_LENGTH_SEMANTICS BYTE NLS_NCHAR_CONV_EXCP FALSE NLS_NCHAR_CHARACTERSET AL16UTF16 11.2.0.1.0 NLS_RDBMS_VERSION

PROPERTY_NAME	PROPERTY_VALUE
GLOBAL_DB_NAME	SHM2
EXPORT_VIEWS_VERSION	8
WORKLOAD_CAPTURE_MODE	
WORKLOAD_REPLAY_MODE	
NO_USERID_VERIFIER_SALT	9001F3A321B6113779F49EEB1
	E0B6779
36 rows selected.	

PROPERTY_NAME	PROPERTY_VALUE		
DICT.BASE	2		
DEFAULT_TEMP_TABLESPACE	TEMP		
DEFAULT_PERMANENT_TABLESPACE	SYSTEM		
DEFAULT_EDITION	ORA\$BASE		
Flashback Timestamp TimeZone	GMT		
TDE_MASTER_KEY_ID DBTIMEZONE	+09:00		
	NONE		
DST_UPGRADE_STATE DST_PRIMARY_TT_VERSION	11		
DST_SECONDARY_TT_VERSION	ė .		
DEFAULT TBS TYPE	SMALLFILE		
PROPERTY_NAME 	PROPERTY_VALUE		
NLS_LANGUAGE	AMERICAN		
NLS_TERRITORY	AMERICA		
NLS_CURRENCY	\$		
NLS_ISO_CURRENCY	AMERICA		
NLS_NUMERIC_CHARACTERS NLS_CHARACTERSET	US7ASCII		
NLS CALENDAR	GREGORIAN		
NLS DATE FORMAT	DD-MON-RR		
NLS DATE LANGUAGE	AMERICAN		
NLS SORT	BINARY		
NLS_TIME_FORMAT	HH.MI.SSXFF AM		
PROPERTY_NAME	PROPERTY_VALUE		
NLS TIMESTAMP FORMAT	DD-MON-RR HH.MI.SSXFF AM		
NLS_TIME_TZ_FORMAT	HH.MI.SSXFF AM TZR		
NLS TIMESTAMP TZ FORMAT	DD-MON-RR HH.MI.SSXFF AM		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TZR		
NLS DUAL CURRENCY	\$		
NLS COMP	BINARY		
NLS_LENGTH SEMANTICS	ВҮТЕ		
NLS_NCHAR_CONV_EXCP	FALSE		
NLS_NCHAR_CHARACTERSET	AL16UTF16		
NLS_RDBMS_VERSION	11.2.0.1.0		
PROPERTY_NAME	PROPERTY_VALUE		
GLOBAL DB NAME	SHM2		
EXPORT_VIEWS_VERSION	8		
WORKLOAD CAPTURE MODE			
WORKLOAD REPLAY MODE			
NO_USERID_VERIFIER_SALT	9001F3A321B6113779F49EEB1 E0B6779		
36 rows selected.			

4. PROD DB에서 ts8100이라는 테이블 스페이스를 생성합니다.

a. 테이블 스페이스 생성할 위치 확인(원하는 경로 골라서 생성 시 활용)

TABLESPACE	STATUS	FILE_NAME
SYSTEM	AVATI ARI F	/u01/app/oracle/oradata/PROD/disk1/system01.dbf
SYSAUX		/u01/app/oracle/oradata/PROD/disk2/sysaux01.dbf
UNDOTBS		/u01/app/oracle/oradata/PROD/disk4/undotbs01.dbf
TEST100		/u01/app/oracle/oradata/PROD/disk1/test100a.dbf
EXAMPLE		/u01/app/oracle/oradata/PROD/disk1/example.dbf
TEST100		/u01/app/oracle/oradata/PROD/disk1/test100b.dbf
TEST100		/u01/app/oracle/oradata/PROD/disk1/test100c.dbf
TS100		/u01/app/oracle/oradata/PROD/disk1/ts100.dbf
SHM	AVAILABLE	/home/oracle/shm01.dbf
INSA01	AVAILABLE	/home/oracle/insa01a.dbf
HR01	AVAILABLE	/u01/app/oracle/oradata/PROD/disk1/hr01.dbf
TABLESPACE	STATUS	FILE_NAME
TS501	AVAILABLE	/u01/app/oracle/oradata/PROD/disk1/PROD/datafile/o1_
TS501	AVAILABLE	/u01/app/oracle/oradata/PROD/disk1/PROD/datafile/o1
TEST5000	AVAILABLE	/home/oracle/test5000.dbf
TS7000	AVAILABLE	/home/oracle/ts7000.dbf
INSA02	AVAILABLE	/home/oracle/insa02b.dbf
UNDOTBS7	AVAILABLE	/home/oracle/undotbs7a.dbf
SMALL_UNDO	AVAILABLE	/home/oracle/small_undo.dbf
TABLESPACE	STATUS	FILE_NAME
UNDOTBS9	AVAILABLE	/home/oracle/undotbs9a.dbf
CVCTEM	AVAILABLE	/u01/app/oracle/oradata/PROD/disk1/system02.dbf
SYSIEM		
SYSTEM SYSAUX	AVAILABLE	/u01/app/oracle/oradata/PROD/disk2/sysaux02.dbf
		<pre>/u01/app/oracle/oradata/PROD/disk2/sysaux02.dbf /home/oracle/ts50.dbf</pre>
SYSAUX	AVAILABLE	
SYSAUX TS50	AVAILABLE AVAILABLE	/home/oracle/ts50.dbf

```
PROD SYS > @tablespace
TABLESPACE STATUS
                                                    FILE NAME
                          AVAILABLE /u01/app/oracle/oradata/PROD/disk1/system01.dbf
AVAILABLE /u01/app/oracle/oradata/PROD/disk2/sysaux01.dbf
AVAILABLE /u01/app/oracle/oradata/PROD/disk4/undotbs01.dbf
AVAILABLE /u01/app/oracle/oradata/PROD/disk1/test100a.dbf
AVAILABLE /u01/app/oracle/oradata/PROD/disk1/example.dbf
AVAILABLE /u01/app/oracle/oradata/PROD/disk1/test100b.dbf
AVAILABLE /u01/app/oracle/oradata/PROD/disk1/test100c.dbf
AVAILABLE /u01/app/oracle/oradata/PROD/disk1/ts100.dbf
AVAILABLE /home/oracle/shm01.dbf
AVAILABLE /home/oracle/insa01a.dbf
AVAILABLE /u01/app/oracle/oradata/PROD/disk1/hr01.dbf
SYSTEM
SYSAUX
UNDOTBS
TEST100
EXAMPLE
TEST100
TEST100
TS100
SHM
TNSA01
HR<sub>0</sub>1
TABLESPACE STATUS
                                                     FILE_NAME
                           AVAILABLE /u01/app/oracle/oradata/PROD/disk1/PROD/datafile/o1_mf_
ts501_lwop91gn_.dbf
TS501
                           AVAILABLE /u01/app/oracle/oradata/PROD/disk1/PROD/datafile/o1_mf_
ts501_lwopk2tw_.dbf
TS501
TEST5000 AVAILABLE /home/oracle/test5000.dbf
TS7000 AVAILABLE /home/oracle/ts7000.dbf
INSA02 AVAILABLE /home/oracle/insa02b.dbf
UNDOTBS7 AVAILABLE /home/oracle/undotbs7a.dbf
SMALL_UNDO AVAILABLE /home/oracle/small_undo.dbf
TABLESPACE STATUS
                                                     FILE NAME
UNDOTBS9
                            AVAILABLE /home/oracle/undotbs9a.dbf
                           AVAILABLE /u01/app/oracle/oradata/PROD/disk1/system02.dbf
AVAILABLE /u01/app/oracle/oradata/PROD/disk2/sysaux02.dbf
AVAILABLE /home/oracle/ts50.dbf
SYSTEM
SYSAUX
TS50
                           AVAILABLE /home/oracle/ts5000.dbf
AVAILABLE /u01/app/oracle/oradata/PROD/disk1/example2.dbf
AVAILABLE /u01/app/oracle/oradata/PROD/disk1/example3.dbf
TS5000
EXAMPLE
EXAMPLE
25 rows selected.
```

b. 테이블 스페이스 생성

```
PROD SYS >
create tablespace ts8100
datafile '/u01/app/oracle/oradata/PROD/disk1/ts8100.dbf' size 5m;
```

```
PROD SYS > create tablespace ts8100
datafile '/u01/app/oracle/oradata/PROD/disk1/ts8100.dbf' size 5m;
Tablespace created.
```

- 5. PROD DB의 SCOTT 유저에서 ts8100 테이블 스페이스에 emp8100 테이블을 생성합니다.
 - a. SYS에서 만들면 데이터 이관 시 에러 발생

```
PROD SCOTT >

connect scott/tiger
```

```
create table emp8100
( empno number(10),
    ename varchar2(20) )
tablespace ts8100;
```

6. emp8100에 데이터 입력을 반복합니다.

```
insert into emp8100 values(111, 'aaa');
commit;
insert into emp8100 values(111, 'aaa');
commit;
insert into emp8100 values(111, 'aaa');
commit;
insert into emp8100 values(111, 'aaa');
```

```
PROD SCOTT > insert into emp8100 values(111,'aaa');

1 row created.

PROD SCOTT > commit;

Commit complete.

PROD SCOTT > insert into emp8100 values(111,'aaa');

1 row created.

PROD SCOTT > commit;

Commit complete.

PROD SCOTT > insert into emp8100 values(111,'aaa');

1 row created.

PROD SCOTT > commit;

Commit complete.

PROD SCOTT > commit;

Commit complete.
```

7. PROD DB의 SYS유저에서 ts8100 테이블 스페이스를 read only로 변경합니다.

a. 데이터를 이관하는 과정에서 데이터의 변경이나 손상이 발생할 수 있기 때문에 방지하기 위해서 read only로 변경해줘야함

```
PROD SCOTT > connect / as sysdba

PROD SYS > alter tablespace ts8100 read only;
```

```
PROD SCOTT > connect / as sysdba
Connected.
PROD SYS >
PROD SYS > alter tablespace ts8100 read only;
Tablespace altered.
```

```
PROD SYS >
select t.name, d.enabled
    from v$tablespace t, v$datafile d
    where t.ts# = d.ts#;
PROD SYS > alter tablespace ts8100 read only;
Tablespace altered.
PROD SYS > select t.name, d.enabled
        from v$tablespace t, v$datafile d
        where t.ts# = d.ts#; 2
NAME
                               ENABLED
                           --- ------
SYSTEM
                               READ WRITE
SYSAUX
                               READ WRITE
UNDOTBS
                               READ WRITE
                               READ WRITE
TEST100
EXAMPLE
                               READ WRITE
                               READ WRITE
TEST100
TEST100
                               READ WRITE
TS100
                               READ WRITE
SHM
                               READ WRITE
INSA01
                               READ WRITE
HR01
                               READ WRITE
NAME
                               ENABLED
                               READ WRITE
TS501
TS501
                               READ WRITE
TEST5000
                               READ WRITE
TS7000
                               READ WRITE
```

READ WRITE

INSA02

```
UNDOTBS7
                                 READ WRITE
SMALL_UNDO
                                 READ WRITE
UNDOTBS9
                                 READ WRITE
SYSTEM
                                 READ WRITE
SYSAUX
                                 READ WRITE
TS50
                                 READ WRITE
NAME
                                 ENABLED
TS5000
                                 READ WRITE
                                 READ WRITE
EXAMPLE
EXAMPLE
                                 READ WRITE
TS7100
                                 READ WRITE
TS8100
                                 READ ONLY
27 rows selected.
```

```
PROD SYS > select t.name, d.enabled
    from v$tablespace t, v$datafile d
    where t.ts# = d.ts#; 2 3
NAME
                                            ENABLED
                                           READ WRITE
READ WRITE
SYSTEM
SYSAUX
                                           READ WRITE
UNDOTBS
TEST100
EXAMPLE
                                            READ WRITE
                                           READ WRITE
READ WRITE
TEST100
TEST100
                                           READ WRITE
TS100
SHM
INSA01
                                            READ WRITE
                                           READ WRITE
HR<sub>0</sub>1
NAME
                                            ENABLED
TS501
                                            READ WRITE
                                           READ WRITE
TS501
TEST5000
                                           READ WRITE
READ WRITE
READ WRITE
TS7000
INSA02
UNDOTBS7
                                           READ WRITE
READ WRITE
SMALL_UNDO
UNDOTBS9
                                           READ WRITE
READ WRITE
READ WRITE
SYSTEM
SYSAUX
TS50
NAME
                                            ENABLED
TS5000
                                            READ WRITE
EXAMPLE
                                           READ WRITE
                                           READ WRITE
READ WRITE
EXAMPLE
TS7100
TS8100
                                            READ ONLY
27 rows selected.
```

8. ts8100 테이블 스페이스를 tablesapce 단위로 export 합니다.

2. 테이블 스페이스 레벨로 데이터 이관

15

\$ exp transport_tablespace=y tablespaces=ts8100 file=ts8100.dmp

----이렇게 수행하면 유저이름과 패스워드를 물어봅니다. -----

유저이름 : sys as sysdba

패스워드 : oracle

따라서 수행 전에 유저이름과 패스워드를 확실하게 알아둬야함

transport_tablespace=y : 테이블 스페이스 레벨로 데이터 이관하는 옵션

[PROD:~]\$ exp transport_tablespace=y tablespaces=ts8100 file=ts8100.dmp

Export: Release 11.2.0.1.0 - Production on Thu Feb 22 11:59:22 2024

Copyright (c) 1982, 2009, Oracle and/or its affiliates. All rights reserv

Username: sys as sysdba

Password: 암호 입력 보이지 않으니 주의

Connected to: Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - With the Partitioning, OLAP, Data Mining and Real Application Testing opti Export done in US7ASCII character set and AL16UTF16 NCHAR character set

Note: table data (rows) will not be exported

About to export transportable tablespace metadata...

For tablespace TS8100 ...

- . exporting cluster definitions $% \left(1\right) =\left(1\right) \left(1\right)$
- . exporting table definitions
- . . exporting table EMP8100
- . exporting referential integrity constraints
- . exporting triggers
- . end transportable tablespace metadata export

Export terminated successfully without warnings.

```
[PROD:~]$ exp transport_tablespace=y tablespaces=ts8100 file=ts8100.dmp

Export: Release 11.2.0.1.0 - Production on Thu Feb 22 11:59:22 2024

Copyright (c) 1982, 2009, Oracle and/or its affiliates. All rights reserved.

Username: sys as sysdba
Password:

Connected to: Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - Production With the Partitioning, OLAP, Data Mining and Real Application Testing options Export done in US7ASCII character set and AL16UTF16 NCHAR character set Note: table data (rows) will not be exported About to export transportable tablespace metadata...

For tablespace TS8100 ...
. exporting cluster definitions
. exporting table definitions
. exporting table definitions
. exporting table definitions
. exporting triggers
. end transportable tablespace metadata export

Export terminated successfully without warnings.
```

9. 2개의 파일을 준비합니다.(export 파일과 ts8100.dbf 파일) ⇒ 잘 있는지 확인

- a. ts8100.dmp: export 한 덤프 파일이 /home/oracle 아래에 있는지만 확인하면 됨
- b. ts8100.dbf: data file
- ts8100.dmp 파일은 /home/oracle 밑에 있는지만 확인하면 됩니다

```
[PROD:~]$ ls -l ts8100.dmp
-rw-r--r-- 1 oracle oinstall 16384 2월 22 11:59 ts8100.dmp

[PROD:~]$ ls -l /u01/app/oracle/oradata/PROD/disk1/ts8100.dbf
-rw-r---- 1 oracle dba 5251072 2월 22 11:57 /u01/app/oracle/oradata/PROD/
```

```
[PROD:~]$ ls -l ts8100.dmp
-rw-r--r-- 1 oracle oinstall 16384 2월 22 11:59 ts8100.dmp
[PROD:~]$
[PROD:~]$ ls -l /u01/app/oracle/oradata/PROD/disk1/ts8100.dbf
-rw-r---- 1 oracle dba 5251072 2월 22 11:57 /u01/app/oracle/oradata/PROD/disk1/ts8100.dbf
```

10. 2개의 파일을 shm2 DB 의 데이터가 있는 디렉토리로 copy 합니다.

- a. ts8100.dbf만 이동!
- b. ts8100.dmp는 local로 할거라서 짝꿍이랑 해볼것. 이기 때문에!
- \$ cp /u01/app/oracle/oradata/PROD/disk1/ts8100.dbf /u01/app/oracle/oradata
- \$ ls -l /u01/app/oracle/oradata/shm2/disk1/ts8100.dbf

```
[PROD:~]$ cp /u01/app/oracle/oradata/PROD/disk1/ts8100.dbf /u01/app/oracle
[PROD:~]$ ls -l /u01/app/oracle/oradata/shm2/disk1/ts8100.dbf
-rw-r---- 1 oracle oinstall 5251072 2월 22 12:01 /u01/app/oracle/oradata/
```

```
[PROD:~]$ cp /u01/app/oracle/oradata/PROD/disk1/ts8100.dbf /u01/app/oracle/oradata/shm2/disk1/ts8100.dbf
[PROD:~]$
[PROD:~]$
[PROD:~]$ ls -l /u01/app/oracle/oradata/shm2/disk1/ts8100.dbf
-rw-r----- 1 oracle oinstall 5251072 2월 22 12:01 /u01/app/oracle/oradata/shm2/disk1/ts8100.db
```

11. oraenv 로 instance를 shm2 DB 로 변경합니다.

\$.oraenv ORACLE_SID? shm2

```
[orcl:~]$ . oraenv
ORACLE_SID = [orcl] ? shm2
ORACLE_HOME = [/home/oracle] ? /u01/app/oracle/product/11.2.0/dbhome_1
The Oracle base for ORACLE_HOME=/u01/app/oracle/product/11.2.0/dbhome_1 is
[shm2:~]$
```

```
[orcl:~]$ . oraenv
ORACLE_SID = [orcl] ? shm2
ORACLE_HOME = [/home/oracle] ? /u01/app/oracle/product/11.2.0/dbhome_1
The Oracle base for ORACLE_HOME=/u01/app/oracle/product/11.2.0/dbhome_1 is /u01/app/oracle
[shm2:~]$
[shm2:~]$
```

12. shm2 DB에서 IMPORT 명령어로 TABLESPACE LEVEL로 IMPORT합니다.

- a. 명령어 간격은 한칸만 주기(민감하기 때문)
- b. datafiles에는 import 받을 DB의 DATAFILE경로를 넣어주면 됨
- c. scott유저가 없으면 scott 유저를 생성해줘야함. 없으면 에러 발생!(dba권한도 있는지 확인)

```
$ imp transport_tablespace=y file=ts8100.dmp datafiles='/u01/app/oracle/or
-----import하면 shm2 DB의 유저이름과 패스워드 물어봄-----
유저이름 : sys as sysdba
패스워드 : oracle
```

[shm2:~]\$ imp transport_tablespace=y file=ts8100.dmp datafiles='/u01/app/o

Import: Release 11.2.0.1.0 - Production on Thu Feb 22 12:02:52 2024

```
Copyright (c) 1982, 2009, Oracle and/or its affiliates. All rights reserv
Username: sys as sysdba
Password: 암호 입력 보이지 않으니 주의

Connected to: Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 -
With the Partitioning, OLAP, Data Mining and Real Application Testing opti

Export file created by EXPORT:V11.02.00 via conventional path
About to import transportable tablespace(s) metadata...
import done in US7ASCII character set and AL16UTF16 NCHAR character set
. importing SYS's objects into SYS
. importing SYS's objects into SYS
. importing SCOTT's objects into SCOTT
. . importing table "EMP8100"
. importing SYS's objects into SYS
Import terminated successfully without warnings.
```

```
[shm2:~]$ imp transport_tablespace=y file=ts8100.dmp datafiles='/u01/app/oracle/oradata/shm2/disk1/ts8100.dbf'

Import: Release 11.2.0.1.0 - Production on Thu Feb 22 12:02:52 2024

Copyright (c) 1982, 2009, Oracle and/or its affiliates. All rights reserved.

Username: sys as sysdba
Password:

Connected to: Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options

Export file created by EXPORT:V11.02.00 via conventional path
About to import transportable tablespace(s) metadata...
import done in US7ASCII character set and AL16UTF16 NCHAR character set
. importing SYS's objects into SYS
. importing SYS's objects into SYS
. importing SYS's objects into SOTT
. importing table "EMP8100"
. importing SYS's objects into SYS
Import terminated successfully without warnings.
Ishm2:~15
```

13. shm2 DB에 IMPORT가 잘 되었는지 확인합니다.

[shm2:~]\$

```
TABLESPACE STATUS FILE_NAME

SYSTEM AVAILABLE /u01/app/oracle/oradata/shm2/disk1/system01.dbf
SYSAUX AVAILABLE /u01/app/oracle/oradata/shm2/disk2/sysaux01.dbf
UNDOTBS AVAILABLE /u01/app/oracle/oradata/shm2/disk4/undotbs01.dbf
TS7100 AVAILABLE /u01/app/oracle/oradata/shm2/disk1/ts7100.dbf
TS8100 AVAILABLE /u01/app/oracle/oradata/shm2/disk1/ts8100.dbf
```

```
Shm2 SYS > @tablespace

TABLESPACE STATUS FILE_NAME

SYSTEM AVAILABLE /u01/app/oracle/oradata/shm2/disk1/system01.dbf
SYSAUX AVAILABLE /u01/app/oracle/oradata/shm2/disk2/sysaux01.dbf
UNDOTBS AVAILABLE /u01/app/oracle/oradata/shm2/disk4/undotbs01.dbf
TS7100 AVAILABLE /u01/app/oracle/oradata/shm2/disk1/ts7100.dbf
TS8100 AVAILABLE /u01/app/oracle/oradata/shm2/disk1/ts8100.dbf
```

14. shm2 DB SYS유저에서 ts7100 테이블 스페이스를 read write로 변경합니다.

```
shm2 SYS >
alter tablespace ts8100 read write;
```

shm2 SYS > alter tablespace ts8100 read write; Tablespace altered.

15. PROD DB의 SYS유저에서 ts7100테이블 스페이스를 read write 변경

```
PROD SYS >
alter tablespace ts8100 read write;
```

PROD SYS > alter tablespace ts8100 read write; Tablespace altered.